ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

C E R T I F I C A T E

No. Z2 119762 0001 Rev. 02

Holder of Certificate: **FuturaSun Srl**
Riva del Pasubio 14
35013 Cittadella (PD)
ITALY

Certification Mark:

Product: **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**

Mono-crystalline Silicon Hetero-junction Photovoltaic module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262301001-02

Valid until: 2024-03-30

Date, 2023-12-27

(Zhulin Zhang)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

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Model(s):

Framed:
166 cell modules:
FUxxxMVL Velvet Pro (xxx=440 to 500 in step of 5)
FUxxxMVM Velvet Pro (xxx=405 to 455 in step of 5)
FUxxxMVS Velvet Pro (xxx=365 to 415 in step of 5)
FUxxxMVLT Velvet Pro (xxx=440 to 480 in step of 5)
FUxxxMVMT Velvet Pro (xxx=405 to 440 in step of 5)
FUxxxMVST Velvet Pro (xxx=365 to 400 in step of 5)
FUxxxMVXB Velvet Pro (xxx=490 to 520 in step of 5)
FUxxxMVLB Velvet Pro (xxx=450 to 480 in step of 5)
FUxxxMVMB Velvet Pro (xxx=410 to 440 in step of 5)
FUxxxMVSB Velvet Pro (xxx=375 to 400 in step of 5)
FUxxxMVXT Velvet Pro (xxx=490 to 520 in step of 5)
FUxxxMVX Velvet Pro (xxx=490 to 520 in step of 5)
FUxxxMVSB1 Velvet Pro(xxx=370 to 400 in step of 5)
FUxxxMV Velvet Pro (xxx=295 to 320 in step of 5)
FUxxxMVT Velvet Pro (xxx=295 to 320 in step of 5)
FUxxxMVS1 Velvet Pro(xxx=375 to 400 in step of 5)
FUxxxMVM1 Velvet Pro(xxx=410 to 440 in step of 5)
FUxxxMVL1 Velvet Pro(xxx=450 to 480 in step of 5)

210 cell modules:
FUxxxMV Velvet Premium Max (xxx=540 to 590 in step of 5)
FUxxxMVS Velvet Premium Max (xxx=590 to 650 in step of 5)
FUxxxMVM Velvet Premium Max (xxx=640 to 720 in step of 5)

182 cell modules:
FUxxxMVS Velvet Plus(xxx=410 to 450 in step of 5)
FUxxxMVL Velvet Plus(xxx=550 to 600 in step of 5)
FUxxxMVSB Velvet Plus(xxx=420 to 440 in step of 5)
FUxxxMVST Velvet Plus(xxx=420 to 440 in step of 5)
FUxxxMVSB1 Velvet Plus(xxx=425 to 445 in step of 5)

Frameless:
FUxxxMVLF Velvet Pro (xxx=440 to 500 in step of 5)
FUxxxMVMF Velvet Pro (xxx=405 to 455 in step of 5)
FUxxxMVSF Velvet Pro (xxx=365 to 415 in step of 5)
FUxxxMVLFT Velvet Pro (xxx=440 to 480 in step of 5)
FUxxxMVMFT Velvet Pro (xxx=405 to 440 in step of 5)
FUxxxMVSFT Velvet Pro (xxx=365 to 400 in step of 5)
FUxxxMVFT Velvet Pro (xxx=295 to 320 in step of 5)
xxx stands for rated output power at STC

The corresponding BSTC power range as follows:
All electrical data is shown as relative to this test conditions:
front side irradiance 1000 W/m2, backside irradiance 135 W/m2,
25 °C, AM 1.5
Framed:
166 cell modules:
FUxxxMVL Velvet Pro (BSTC Power range: 490W to 550W in step of 5)
FUxxxMVM Velvet Pro (BSTC Power range: 450W to 500W in step of 5)
FUxxxMVS Velvet Pro (BSTC Power range: 405W to 455W in step of 5)
FUxxxMVLT Velvet Pro (BSTC Power range: 495W to 535W in step of 5)
FUxxxMVMT Velvet Pro (BSTC Power range: 455W to 490W in step of 5)
FUxxxMVST Velvet Pro (BSTC Power range: 410W to 445W in step of 5)
FUxxxMVXB Velvet Pro (BSTC Power range: 540W to 570W in step of 5)
FUxxxMVLB Velvet Pro (BSTC Power range: 495W to 525W in step of 5)
FUxxxMVMB Velvet Pro (BSTC Power range: 450W to 480W in step of 5)
FUxxxMVSB Velvet Pro (BSTC Power range: 410W to 435W in step of 5)
FUxxxMVXT Velvet Pro (BSTC Power range: 545W to 575W in step of 5)
FUxxxMVX Velvet Pro (BSTC Power range: 540W to 570W in step of 5)
FUxxxMVT Velvet Pro(BSTC Power range: 325W to 350W in step of 5)
FUxxxMV Velvet Pro (BSTC Power range: 325W to 350W in step of 5)

210 cell modules:
FUxxxMV Velvet Premium Max
(BSTC Power range: 600W to 650W in step of 5)
FUxxxMVS Velvet Premium Max
(BSTC Power range: 655W to 715W in step of 5)
FUxxxMVM Velvet Premium Max

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(BSTC Power range: 710W to 790W in step of 5)

182 cell modules:
FUxxxMVS Velvet Plus(BSTC Power range: 455W to 495W in step of 5)
FUxxxMVL Velvet Plus(BSTC Power range: 610W to 660W in step of 5)
FUxxxMVSB Velvet Plus(BSTC Power range: 465W to 485W in step of 5)
FUxxxMVST Velvet Plus(BSTC Power range: 470W to 490W in step of 5)

Frameless:
FUxxxMVLF Velvet Pro (BSTC Power range: 490W to 550W in step of 5)
FUxxxMVMF Velvet Pro (BSTC Power range: 450W to 500W in step of 5)
FUxxxMVSF Velvet Pro (BSTC Power range: 405W to 455W in step of 5)
FUxxxMVLFT Velvet Pro (BSTC Power range: 495W to 535W in step of 5)
FUxxxMVMFT Velvet Pro (BSTC Power range: 455W to 490W in step of 5)
FUxxxMVSFT Velvet Pro (BSTC Power range: 410W to 445W in step of 5)
FUxxxMVFT Velvet Pro (BSTC Power range: 325W to 350W in step of 5)

Parameters:

Construction:	Framed or Frameless, with Junction box, cable and connector.
Safety Class:	Class II
Max. system voltage:	1500V DC
Fire Safety Class:	Class C according to UL790
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute. No. 10 West Kaifa Road, Yangzhou, 225009 Jiangsu, P. R. China.

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
EN 61215-1:2016
EN 61215-1-1:2016
EN 61215-2:2017
EN IEC 61730-1:2018
EN IEC 61730-1:2018/AC:2018-06
EN IEC 61730-2:2018
EN IEC 61730-2:2018/AC:2018-06

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